CLAIMS

What is claimed is:

1   1.   A home server comprising:
2   a personalization engine to create personal preference information from a user
3   regarding a content, the personal preference information being represented in a
4   description compatible with a content analyzer in an edge server; and
5   a content scheduler coupled to the personalization engine to schedule delivery
6   of the content from the edge server and uploading of the personal preference
7   information to the edge server.

1   2.   The home server of claim 1 further comprising:
2   a local storage to cache the content delivered from the edge server; and
3   a content manager coupled to the local storage to manage the cached content.

1   3.   The home server of claim 1 wherein the description is compatible with a
2   metadata associated with the content.

1   4.   The home server of claim 3 wherein the metadata is one of a closed
2   caption, a Resource Description Framework (RDF), motion picture expert group
3   (MPEG)-7, TV-Anytime metadata, a Society of Motion Picture and Television
4   Engineers (SMPTE) metadata dictionary, a Dublin Core descriptor, and an European
5   Broadcasting Union (EBU) P/meta.

1   5.   The home server of claim 1 wherein the personalization engine
2   comprises:
3   a deduction engine to deduce the personal preference information based on
4   user's usage.

1   6.   The home server of claim 1 wherein the personalization engine
2   comprises:
3   an input interface to obtain the personal preference information provided by the
4   user.

1   7.   The home server of claim 2 wherein the content manager comprises:

2   a retriever to retrieve the cache content;

3   an indexer to index the cache content; and

4   a distributor to distribute the retrieved cache content to a device.

1   8.   The home server of claim 7 wherein the content manager further

2 comprises:

3   a decryptor to decrypt the cache content; and

4   an archiver to archive the cached content.

1   9.   The home server of claim 7 wherein the device is one of a viewing

2 device, a personal digital assistant (PDA), an audio visual device, a tablet, a personal

3 computer, a set-top box, a digital television set, and a wireless device.

1   10.   An edge server comprising:

2   a content analyzer to analyze a content received from a media source based on a

3 description compatible with personal preference information from a user regarding the

4 content, the personal preference information being provided by a home server; and

5   a content filter coupled to the content analyzer to filter the content according to

6 the personal preference information for delivery to the user.

1   11.   The edge server of claim 10 further comprising:

2   a content assembler to assemble the filtered content using the description into a

3 packaged content according to an assembly criterion; and

4   a content distributor coupled to the content assembler to distribute the packaged

5 content to the user based on delivery information provided by the home server.

1   12.   The edge server of claim 10 wherein the media source is one of a Web

2 content, a television broadcast, a media broadcast, a video program, an audio program,

3 and an audio visual program.

1   13.   The edge server of claim 10 wherein the description is compatible with a

2 metadata associated with the content.

14. The edge server of claim 13 wherein the metadata is one of a closed caption, a Resource Description Framework (RDF), motion picture expert group (MPEG)-7, a TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE) metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union (EBU) P/meta.

15. The edge server of claim 10 wherein the assembly criterion is one of a semantic topic and a subscription level.

16. The edge server of claim 10 wherein the delivery information includes at least a scheduled time, a quality of service information, and a transmission bandwidth.

17. The edge server of claim 13 wherein the content analyzer comprises:
a parser to parse the metadata.

18. The edge server of claim 10 wherein the content analyzer comprises:
a metadata creator to create a metadata associated with the content.

19. The edge server of claim 10 wherein the content filter comprises:
a matcher to match the description with the personal preference information.

20. A method comprising:
creating personal preference information from a user regarding a content, the personal preference information being represented in a description compatible with a content analyzer in an edge server; and
scheduling delivery of the content from the edge server and uploading of the personal preference information to the edge server.

21. The method of claim 20 further comprising:
caching the content delivered from the edge server; and
managing the cached content.

22. The method of claim 20 wherein the description is compatible with a metadata associated with the content.

23.   The method of claim 22 wherein the metadata is one of a closed caption, a Resource Description Framework (RDF), motion picture expert group (MPEG)-7, TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE) metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union (EBU) P/meta.

24.   The method of claim 20 wherein creating personal preference information comprises:
deducing the personal preference information based on user's usage.

25.   The method of claim 20 wherein creating personal preference information comprises:
obtaining the personal preference information provided by the user.

26.   The method of claim 21 wherein scheduling delivery comprises:
retrieving the cache content;
indexing the cache content; and
distributing the retrieved cache content to a device.

27.   The method of claim 26 wherein scheduling delivery further comprises:
decrypting the cache content; and
archiving the cached content.

28.   The method of claim 26 wherein the device is one of a viewing device, a personal digital assistant (PDA), an audio visual device, a tablet, a personal computer, a set-top box, a digital television set, and a wireless device.

29.   A method comprising:
analyzing a content received from a media source based on a description compatible with personal preference information from a user regarding the content, the personal preference information being provided by a home server; and
filtering the content according to the personal preference information for delivery to the user.

1   30.   The method of claim 29 further comprising:

2   assembling the filtered content using the description into a packaged content

3 according to an assembly criterion; and

4   distributing the packaged content to the user based on delivery information

5 provided by the home server.

1   31.   The method of claim 29 wherein the media source is one of a Web

2 content, a television broadcast, a media broadcast, a video program, an audio program,

3 and an audio visual program.

1   32.   The method of claim 29 wherein the description is compatible with a

2 metadata associated with the content.

1   33.   The method of claim 32 wherein the metadata is one of a closed caption,

2 a Resource Description Framework (RDF), motion picture expert group (MPEG)-7, a

3 TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE)

4 metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union

5 (EBU) P/meta.

1   34.   The method of claim 29 wherein the assembly criterion is one of a

2 semantic topic and a subscription level.

1   35.   The method of claim 29 wherein the delivery information includes at

2 least a scheduled time, a quality of service information, and a transmission bandwidth.

1   36.   The method of claim 32 wherein analyzing comprises:

2 parsing the metadata.

1   37.   The method of claim 29 wherein analyzing comprises:

2 creating a metadata associated with the content.

1   38.   The method of claim 29 wherein filtering comprises:

2 matching the description with the personal preference information.

1   39.   A system comprising:

2   a media source to provide a media content;

3   an edge server connected to a network; and

4   a home server coupled to the edge server via the network, the home sever

5   comprising:

6   a personalization engine to create personal preference information from

7   a user regarding a content, the personal preference information being

8   represented in a description compatible with a content analyzer in the

9   edge server; and

10   a content scheduler coupled to the personalization engine to schedule

11   delivery of the content from the edge server and uploading of the

12   personal preference information to the edge server.

1   40.   The system of claim 39 further comprising:

2   a local storage to cache the content delivered from the edge server; and

3   a content manager coupled to the local storage to manage the cached content.

1   41.   The system of claim 39 wherein the description is compatible with a

2   metadata associated with the content.

1   42.   The system of claim 41 wherein the metadata is one of a closed caption,

2   a Resource Description Framework (RDF), motion picture expert group (MPEG)-7,

3   TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE)

4   metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union

5   (EBU) P/meta.

1   43.   The system of claim 39 wherein the personalization engine comprises:

2   a deduction engine to deduce the personal preference information based on

3   user's usage.

1   44.   The system of claim 39 wherein the personalization engine comprises:

2   an input interface to obtain the personal preference information provided by the

3   user.

45.   The system of claim 40 wherein the content manager comprises:

a retriever to retrieve the cache content;

an indexer to index the cache content;

a distributor to distribute the retrieved cache content to a device.

46.   The system of claim 45 wherein the content manager further comprises:

a decryptor to decrypt the cache content; and

an archiver to archive the cached content.

47.   The system of claim 45 wherein the device is one of a viewing device, a personal digital assistant (PDA), an audio visual device, a tablet, a personal computer, a set-top box, a digital television set, and a wireless device.

48.   A system comprising:

a media source to provide a media content;

a home server connected to a network; and

an edge server coupled to the home server via the network, the edge server comprising:

a content analyzer to analyze a content received from a media source based a description compatible with personal preference information from a user regarding the content, the personal preference information being provided by a home server; and

a content filter coupled to the content analyzer to filter the content according to the personal preference information for delivery to the user.

49.   The system of claim 48 further comprising:

a content assembler to assemble the filtered content using the description into a packaged content according to an assembly criterion; and

a content distributor coupled to the content assembler to distribute the packaged content to the user based on delivery information provided by the home server.

50.   The system of claim 48 wherein the media source is one of a Web content, a television broadcast, a media broadcast, a video program, an audio program, and an audio visual program.

1   51.   The system of claim 48 wherein the description is compatible with a
2   metadata associated with the content.

1   52.   The system of claim 51 wherein the metadata is one of a closed caption,
2   a Resource Description Framework (RDF), motion picture expert group (MPEG)-7, a
3   TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE)
4   metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union
5   (EBU) P/meta.

1   53.   The system of claim 48 wherein the assembly criterion is one of a
2   semantic topic and a subscription level.

1   54.   The system of claim 48 wherein the delivery information includes at
2   least a scheduled time, a quality of service information, and a transmission bandwidth.

1   55.   The system of claim 51 wherein the content analyzer comprises:
2   a parser to parse the metadata.

1   56.   The system of claim 48 wherein the content analyzer comprises:
2   a metadata creator to create a metadata associated with the content.

1   57.   The system of claim 48 wherein the content filter comprises:
2   a matcher to match the description with the personal preference information.